


```
PPPPPPPP      AAAAAA      SSSSSSSS      CCCCCCCC      LL      000000      SSSSSSSS      EEEEEEEEEEE      222222
PPPPPPPP      AAAAAA      SSSSSSSS      CCCCCCCC      LL      000000      SSSSSSSS      EEEEEEEEEEE      222222
PP      PP      AA      AA      SS      CC      LL      00      00      SS      EE      22      22
PP      PP      AA      AA      SS      CC      LL      00      00      SS      EE      22      22
PP      PP      AA      AA      SS      CC      LL      00      00      SS      EE      22      22
PP      PP      AA      AA      SS      CC      LL      00      00      SS      EE      22      22
PPPPPPPP      AA      AA      SSSSSS      CC      LL      00      00      SSSSSS      EEEEEEEEEEE      22
PPPPPPPP      AA      AA      SSSSSS      CC      LL      00      00      SSSSSS      EEEEEEEEEEE      22
PP      AAAAAAAAAA      SS      CC      LL      00      00      SS      EE      22
PP      AAAAAAAAAA      SS      CC      LL      00      00      SS      EE      22
PP      AA      AA      SS      CC      LL      00      00      SS      EE      22
PP      AA      AA      SS      CC      LL      00      00      SS      EE      22
PP      AA      AA      SSSSSSSS      CC      LL      00      00      SSSSSSSS      EEEEEEEEEEE      2222222222
PP      AA      AA      SSSSSSSS      CCCCCCCC      LLLLLLLLLL      000000      SSSSSSSS      EEEEEEEEEEE      2222222222
                                         .....
                                         .....
                                         .....
                                         .....

LL      I I I I I      SSSSSSSS
LL      I I I I I      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      I I I I I      SSSSSSSS
LLLLLLLLLLLL      I I I I I      SSSSSSSS
LLLLLLLLLLLL      I I I I I      SSSSSSSS
```



```
1 0001 0 MODULE PAS$CLOSE2 ( %TITLE 'close a file'
2 0002 0 IDENT = '1-006' ! File: PASCLOSE2.B32 Edit: SBL1006
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: Pascal Language Support
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains PAS$CLOSE2 and PAS$$CLOSE, which close a file.
36 0036 1
37 0037 1 ENVIRONMENT: User mode - AST reentrant
38 0038 1
39 0039 1 AUTHOR: Steven B. Lionel, CREATION DATE: 1-April-1981
40 0040 1
41 0041 1 MODIFIED BY:
42 0042 1
43 0043 1 1-001 - Original. SBL 1-April-1981
44 0044 1 1-002 - Give error in PAS$CLOSE2 if FCB is not valid. SBL 21-June-1982
45 0045 1 1-003 - Correct erroneous error check in PAS$$CLOSE. SBL 9-July-1982
46 0046 1 1-004 - Make sure XAB chain doesn't point to garbage. SBL 29-July-1982
47 0047 1 1-005 - Zero FCB$L STATUS before closing file. QAR FT3-2. SBL 30-Aug-1982
48 0048 1 1-006 - Use PAS$$AB_KEYWD_NAME_TABLE to detect duplicate keywords.
49 0049 1 SBL 19-Aug-1983
50 0050 1 --
51 0051 1
```

PAS\$CLOSE2
1-006

Close a file
Declarations

I 14
16-Sep-1984 01:29:07
14-Sep-1984 12:51:21

VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PAS\$CLOSE2.B32;1

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```
: 53      0052 1 %SBTTL 'Declarations'
: 54      0053 1
: 55      0054 1 PROLOGUE DEFINITIONS:
: 56      0055 1
: 57      0056 1
: 58      0057 1 REQUIRE 'RTLIN:PASPROLOG';
: 59      0121 1
: 60      0122 1
: 61      0123 1 TABLE OF CONTENTS:
: 62      0124 1
: 63      0125 1
: 64      0126 1 FORWARD ROUTINE
: 65      0127 1     PAS$CLOSE2: NOVALUE,
: 66      0128 1     PAS$$CLOSE: NOVALUE;
: 67      0129 1
: 68      0130 1
: 69      0131 1 MACROS:
: 70      0132 1
: 71      0133 1     NONE
: 72      0134 1
: 73      0135 1 EQUATED SYMBOLS:
: 74      0136 1
: 75      0137 1     NONE
: 76      0138 1
: 77      0139 1 FIELDS:
: 78      0140 1
: 79      0141 1     NONE
: 80      0142 1
: 81      0143 1 OWN STORAGE:
: 82      0144 1
: 83      0145 1     NONE
```

! Linkages, externals, PSECTs, structures

! Called by compiled code
! Called internally by RTL


```

: 85 0146 1 %SBTTL 'PASSCLOSE2 - Close a file'
: 86 0147 1 GLOBAL ROUTINE PASSCLOSE2 (
: 87 0148 1 PFV: REF $PASSPFV_FILE_VARIABLE,
: 88 0149 1 KEYWORDS: VECTOR [, LONG]
: 89 0150 1 ): NOVALUE =
: 90 0151 1
: 91 0152 1 ++
: 92 0153 1 FUNCTIONAL DESCRIPTION:
: 93 0154 1
: 94 0155 1 This routine closes a Pascal file. This entry is called from the
: 95 0156 1 compiled code for the CLOSE procedure.
: 96 0157 1
: 97 0158 1 CALLING SEQUENCE:
: 98 0159 1
: 99 0160 1 CALL PASSCLOSE2 (PFV.mr.r [, keyword.rz.v [, keyword.rz.v ...]])
: 100 0161 1
: 101 0162 1 FORMAL PARAMETERS:
: 102 0163 1
: 103 0164 1 PFV - The Pascal File Variable (PFV) passed by reference.
: 104 0165 1 The structure of the PFV is defined in PASPFV.REQ.
: 105 0166 1
: 106 0167 1 keyword - Zero or more values representing keywords in the
: 107 0168 1 CLOSE procedure. Some keywords are followed by
: 108 0169 1 associated arguments and values. See PASOPEKEY.REQ
: 109 0170 1 for the keyword value definitions.
: 110 0171 1
: 111 0172 1 If the keyword ERROR is specified, it must be first
: 112 0173 1 in the list, otherwise it will be ignored.
: 113 0174 1
: 114 0175 1 IMPLICIT INPUTS:
: 115 0176 1
: 116 0177 1 NONE
: 117 0178 1
: 118 0179 1 IMPLICIT OUTPUTS:
: 119 0180 1
: 120 0181 1 NONE
: 121 0182 1
: 122 0183 1 COMPLETION STATUS: (or ROUTINE VALUE:)
: 123 0184 1
: 124 0185 1 NONE
: 125 0186 1
: 126 0187 1 SIDE EFFECTS:
: 127 0188 1
: 128 0189 1 See PASS$CLOSE
: 129 0190 1
: 130 0191 1 SIGNALLED ERRORS:
: 131 0192 1
: 132 0193 1 FILALRCLO - file already closed
: 133 0194 1
: 134 0195 1 --
: 135 0196 1
: 136 0197 2 BEGIN
: 137 0198 2
: 138 0199 2 LOCAL
: 139 0200 2 FCB: REF $PASSFCB_CONTROL_BLOCK,
: 140 0201 2 PFV_ADDR: VOLATILE,
: 141 0202 2 UNWIND_ACT: VOLATILE,

```

! Close a file
! File variable
! Keywords and specifiers

! File Control Block
! Enable argument
! Enable argument

PASSCLOSE2
1-006

close a file
PASSCLOSE2 - Close a file

K 14
16-Sep-1984 01:29:07 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:51:21 [PASRTL.SRC]PASCLOSE2.B32;1

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```

: 142      0203      2      ERROR_ADDR: VOLATILE;                ! Enable argument
: 143      0204      2
: 144      0205      2      BUILTIN
: 145      0206      2      ACTUALCOUNT,
: 146      0207      2      AP,
: 147      0208      2      CALLG;
: 148      0209      2
: 149      0210      2      ENABLE
: 150      0211      2      PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);
: 151      0212      2
: 152      0213      2      !+
: 153      0214      2      ! Set PFV_ADDR enable argument.
: 154      0215      2      !-
: 155      0216      2
: 156      0217      2      PFV_ADDR = PFV [PFV$R_PFV];
: 157      0218      2
: 158      0219      2      !+
: 159      0220      2      ! Validate and lock PFV.
: 160      0221      2      !-
: 161      0222      2
: 162      0223      2      PASS$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);
: 163      0224      2
: 164      0225      2      !+
: 165      0226      2      ! Set unwind action to unlock file.
: 166      0227      2      !-
: 167      0228      2
: 168      0229      2      UNWIND_ACT = PASS$K_UNWIND_UNLOCK;
: 169      0230      2
: 170      0231      2      !+
: 171      0232      2      ! If ERROR is present, it is the first keyword in the list. See
: 172      0233      2      ! if that is true. If so, set enable argument to the return address.
: 173      0234      2      !-
: 174      0235      2
: 175      0236      2      IF ACTUALCOUNT () GEQU 3      ! At least 3 needed for PFV, keyword, value
: 176      0237      2      THEN
: 177      0238      2          IF .KEYWORDS [0] EQL PASS$K_ERROR      ! Is it the ERROR keyword?
: 178      0239      2          THEN
: 179      0240      2              ERROR_ADDR = .KEYWORDS [1];
: 180      0241      2
: 181      0242      2      !+
: 182      0243      2      ! If file variable is not valid, call PASS$OPEN_IMPLICIT to see if the
: 183      0244      2      ! file should be implicitly opened. Even though we will just close it
: 184      0245      2      ! again, we must do this to satisfy the language semantics for INPUT
: 185      0246      2      ! and OUTPUT.
: 186      0247      2      !-
: 187      0248      2
: 188      0249      2      IF NOT .PFV [PFV$V_VALID]
: 189      0250      2      THEN
: 190      0251      2          PASS$OPEN_IMPLICIT (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);
: 191      0252      2
: 192      0253      2      !+
: 193      0254      2      ! If FCB pointer is not valid, give an error.
: 194      0255      2      !-
: 195      0256      2
: 196      0257      2      IF NOT .PFV [PFV$V_FCB_VALID]
: 197      0258      2      THEN
: 198      0259      2          $PASS$IO_ERROR (PASS$_FILALRCLO,0);
```


PASSCLOSE2
1-006

Close a file
PASSCLOSE2 - Close a file

L 14
16-Sep-1984 01:29:07
14-Sep-1984 12:51:21

VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASCLOSE2.B32;1

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```
.. 199      0260  2
.. 200      0261  2
.. 201      0262  2
.. 202      0263  2
.. 203      0264  2
.. 204      0265  2
.. 205      0266  2
.. 206      0267  2
.. 207      0268  2
.. 208      0269  2
.. 209      0270  2
.. 210      0271  2
.. 211      0272  2
.. 212      0273  2
.. 213      0274  2
.. 214      0275  2
.. 215      0276  2
.. 216      0277  2
.. 217      0278  2
.. 218      0279  2
.. 219      0280  2
.. 220      0281  2
.. 221      0282  2
.. 222      0283  2
.. 223      0284  2
.. 224      0285  2
.. 225      0286  2
.. 226      0287  2
.. 227      0288  2
.. 228      0289  1

!+ Zero the STATUS value in the FCB. This will get stored in the
!- PFV by PASS$REMOVE_FILE.

FCB = .PFV [PFV$A_FCB];
FCB [FCB$L_STATUS] = 0;

!+ Call PASS$CLOSE to do the work.
!-

CALLG (.AP, PASS$CLOSE);

!+ Remove it from the list of open files.
!-

PASS$REMOVE_FILE (FCB [FCB$R_FCB]);

!+ Unlock the file variable.
!-

PFV [PFV$V_LOCK] = 0;

RETURN;

END;
```

! End of routine PASS\$CLOSE2

```
.TITLE PASSCLOSE2 Close a file
.IDENT \1-006\

.EXTRN PASSCLOSE2, PASS$CLOSE
.EXTRN PASS$IO_HANDLER
.EXTRN PASS$VACIDATE_PFV
.EXTRN PASS$OPEN_IMPLICIT
.EXTRN PASS$SIGNAL, PASS$FILALRCLO
.EXTRN PASS$REMOVE_FILE
```

.PSECT _PASSCODE, NOWRT, SHR, PIC, 2

```
.ENTRY PASSCLOSE2, Save R2,R6,R7
SUBL2 #8, SP
CLRL ERROR_ADDR
CLRQ UNWIND_ACT
MOVAL 4$, (FP)
MOVL PFV, R6
MOVL R6, PFV_ADDR
JSB PASS$VACIDATE_PFV
MOVL #1, UNWIND_ACT
CMPB (AP), #3
BLSSU 1$
CMPL KEYWORDS, #25
BNEQ 1$
```

```
00C4 00000
5E      08 C2 00002
        7E D4 00005
        04 AE 7C 00007
        6D 005E CF DE 0000A
        56 04 AC D0 0000F
08 AE 56 D0 00013
        00000000G 00 16 00017
04 AE 01 D0 0001D
        03 6C 91 00021
        19 08 0A 1F 00024
        AC D1 00026
        04 12 0002A
```

```
.. 0147
.. 0197
.. 0217
.. 0223
.. 0229
.. 0236
.. 0238
..
```

PASSCLOSE2
1-006

Close a file
PASSCLOSE2 - Close a file

M 14

16-Sep-1984 01:29:07

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	6E	0C	AC	D0	0002C		MOVL	KEYWORDS+4, ERROR_ADDR	:	0240
	06	06	A6	E8	00030	1\$:	BLBS	6(R6), 2\$:	0249
		00000000G	00	16	00034		JSB	PASS\$OPEN_IMPLICIT	:	0251
OE	07	A6	06	E0	0003A	2\$:	BBS	#6, 7(R6), 3\$:	0257
			7E	D4	0003F		CLRL	-(SP)	:	0259
	7E	00G	8F	9A	00041		MOVZBL	#PASSK.FILALRCLO, -(SP)	:	
00000000G	00		02	FB	00045		CALLS	#2, PASS\$\$SIGNAL	:	
				04	0004C		RET		:	
	57	0C	A6	D0	0004D	3\$:	MOVL	12(R6), FCB	:	0266
		D4	A7	D4	00051		CLRL	-44(FCB)	:	0267
0000V	CF		6C	FA	00054		CALLG	(AP), PASS\$CLOSE	:	0273
			57	DD	00059		PUSHL	FCB	:	0279
00000000G	00		01	FB	0005B		CALLS	#1, PASS\$REMOVE_FILE	:	
	50	04	AC	D0	00062		MOVL	PFV, R0	:	0285
07	A0	80	8F	8A	00066		BICB2	#128, 7(R0)	:	
				04	0006B		RET		:	0289
				0000	0006C	4\$:	.WORD	Save nothing	:	0197
	50	08	AC	D0	0006E		MOVL	8(AP), R0	:	
	50	04	A0	D0	00072		MOVL	4(R0), R0	:	
		F4	A0	9F	00076		PUSHAB	ERROR_ADDR	:	
		F8	A0	9F	00079		PUSHAB	UNWIND_ACT	:	
		FC	A0	9F	0007C		PUSHAB	PFV_ADDR	:	
			03	DD	0007F		PUSHL	#3	:	
			5E	DD	00081		PUSHL	SP	:	
	7E	04	AC	7D	00083		MOVQ	4(AP), -(SP)	:	
00000000G	00		03	FB	00087		CALLS	#3, PASS\$IO_HANDLER	:	
				04	0008E		RET		:	

; Routine Size: 143 bytes, Routine Base: _PASS\$CODE + 0000

: 229 0290 1
: 230 0291 1 !<BLF/PAGE>

PASSCLOSE2
1-006

Close a file
PASS\$CLOSE - Close a file

N 14
16-Sep-1984 01:29:07
14-Sep-1984 12:51:21

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[PASRTL.SRC]PASCLOSE2.B32;1

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```

232 0292 1 %SBTTL 'PASS$CLOSE - Close a file'
233 0293 1 GLOBAL ROUTINE PASS$CLOSE (
234 0294 1     IN PFV: REF $PASS$PFV_FILE_VARIABLE,
235 0295 1     KEYWORDS: VECTOR [, [ONG]]
236 0296 1 ): NOVALUE =
237 0297 1
238 0298 1 !++
239 0299 1 ! FUNCTIONAL DESCRIPTION:
240 0300 1
241 0301 1 !     This procedure closes the Pascal file specified by 'PFV'
242 0302 1 !     using the attributes possibly supplied as 'keyword'. PASS$CLOSE
243 0303 1 !     is to be called from other RTL routines only after they have tested
244 0304 1 !     and set PFV$V_LOCK in 'PFV'.
245 0305 1
246 0306 1 ! CALLING SEQUENCE:
247 0307 1
248 0308 1 !     PASS$CLOSE (PFV.mr.r [, keyword.rz.v [, keyword.rz.v ...]])
249 0309 1
250 0310 1 ! FORMAL PARAMETERS:
251 0311 1
252 0312 1 !     PFV
253 0313 1 !         - The Pascal File Variable (PFV) passed by reference.
254 0314 1 !         The structure of the PFV is defined in PASPFV.MDL.
255 0315 1 !
256 0316 1 !     keyword
257 0317 1 !         - Zero or more values representing keywords in the
258 0318 1 !         CLOSE procedure. Some keywords are followed by
259 0319 1 !         associated arguments and values. See PASOPNKEY.MDL
260 0320 1 !         for the keyword value definitions.
261 0321 1
262 0322 1 ! IMPLICIT INPUTS:
263 0323 1 !
264 0324 1 !     The PFV$V_LOCK bit is assumed to have been tested-and-set by the caller.
265 0325 1 !     The PFV$V_FCB_VALID bit is assumed set.
266 0326 1
267 0327 1 ! IMPLICIT OUTPUTS:
268 0328 1 !
269 0329 1 !     NONE
270 0330 1
271 0331 1 ! COMPLETION STATUS:
272 0332 1 !
273 0333 1 !     NONE
274 0334 1
275 0335 1 ! SIDE EFFECTS:
276 0336 1 !
277 0337 1 !     The file is closed. The record buffer and resultant name string
278 0338 1 !     are deallocated.
279 0339 1
280 0340 1 ! SIGNALLED ERRORS:
281 0341 1 !
282 0342 1 !     ERRDURCLO - error during CLOSE
283 0343 1 !     INVARGPAS - invalid argument to Pascal Run-Time Library
284 0344 1 !     FILNAMREQ - file name required to save, submit or print file
285 0345 1 !
286 0346 2 ! --
287 0347 2 ! BEGIN
288 0348 2 ! LOCAL
```



```

: 289 0349 2 PFV: REF $PASS$PFV_FILE_VARIABLE, | Pascal File Variable
: 290 0350 2 FCB: REF $PASS$FCB_CONTROL_BLOCK, | File control block
: 291 0351 2 BLOCK_ADDR: VOLATILE, | Address of dynamically allocated block
: 292 0352 2 STATUS, | Status from $CLOSE
: 293 0353 2 KEYWORDS_SEEN: BITVECTOR [PASS$K_OPEKEYHI+1], |
: 294 0354 2 | Keep track of keywords seen
: 295 0355 2 USER_ACTION_BPV: REF VECTOR [, LONG]; | USER_ACTION routine BPV
: 296 0356 2
: 297 0357 2 BUILTIN
: 298 0358 2 TESTBITCS,
: 299 0359 2 TESTBITSC,
: 300 0360 2 ACTUALCOUNT;
: 301 0361 2
: 302 0362 2 BIND
: 303 0363 2 RAB = FCB: REF BLOCK [, BYTE],
: 304 0364 2 FAB = FCB: REF $PASS$FAB_FCB_STRUCT;
: 305 0365 2
: 306 0366 2 !+
: 307 0367 2 ! Get PFV address.
: 308 0368 2 !-
: 309 0369 2
: 310 0370 2 PFV = .IN_PFV;
: 311 0371 2
: 312 0372 2 !+
: 313 0373 2 ! Get addresses of PFV.
: 314 0374 2 !-
: 315 0375 2
: 316 0376 2 FCB = .PFV [PFV$A_FCB];
: 317 0377 2
: 318 0378 2 !+
: 319 0379 2 ! Do the keyword processing.
: 320 0380 2 !-
: 321 0381 2
: 322 0382 2 KEYWORDS_SEEN <0,32> = 0; ! Indicate no keywords seen
: 323 0383 2 KEYWORDS_SEEN <32,PASS$K_OPEKEYHI+-31> = 0;
: 324 0384 2
: 325 0385 2
: 326 0386 2 !+
: 327 0387 2 ! Look through keyword list and set all specified attributes.
: 328 0388 2 !-
: 329 0389 2
: 330 0390 2 INCR I FROM 0 TO (ACTUALCOUNT () - 2) DO
: 331 0391 2 BEGIN
: 332 0392 2
: 333 0393 2 LOCAL
: 334 0394 2 KEYWD_VALUE;
: 335 0395 2
: 336 0396 2 !+
: 337 0397 2 ! Check for valid keyword code. If not already seen, use the
: 338 0398 2 ! keyword.
: 339 0399 2 !-
: 340 0400 2
: 341 0401 2 KEYWD_VALUE = .KEYWORDS [.I];
: 342 0402 2 IF .KEYWD_VALUE LSS PASS$K_OPEKEYLO OR .KEYWD_VALUE GTR PASS$K_OPEKEYHI
: 343 0403 2 THEN
: 344 0404 2 $PASS$IO_ERROR (PASS$_INVARGPAS,0);
: 345 0405 2
```



```

: 346      0406      3      IF TESTBITCS (KEYWORDS_SEEN [.PASS$AB_KEYWD_NAME_TABLE[.KEYWD_VALUE]])
: 347      0407      3      THEN
: 348      0408      3          CASE .KEYWD_VALUE FROM PASS$K_OPEKEYLO TO PASS$K_OPEKEYHI OF
: 349      0409      3              SET
: 350      0410      3                  [PASS$K_DISPOSITION_SAVE]:
: 351      0411      3                      BEGIN
: 352      0412      4                          FCB [FCB$V_DELETE] = 0;
: 353      0413      4                          FCB [FCB$V_PRINT] = 0;
: 354      0414      4                          FCB [FCB$V_SUBMIT] = 0;
: 355      0415      4                          FCB [FCB$V_SAVE] = 1;
: 356      0416      4                      END;
: 357      0417      3                  [PASS$K_DISPOSITION_DELETE]:
: 358      0418      3                      BEGIN
: 359      0419      4                          FCB [FCB$V_PRINT] = 0;
: 360      0420      4                          FCB [FCB$V_SUBMIT] = 0;
: 361      0421      4                          FCB [FCB$V_SAVE] = 0;
: 362      0422      4                          FCB [FCB$V_DELETE] = 1;
: 363      0423      4                      END;
: 364      0424      3                  [PASS$K_DISPOSITION_PRINT]:
: 365      0425      3                      BEGIN
: 366      0426      4                          FCB [FCB$V_DELETE] = 0;
: 367      0427      4                          FCB [FCB$V_SUBMIT] = 0;
: 368      0428      4                          FCB [FCB$V_SAVE] = 1;
: 369      0429      4                          FCB [FCB$V_PRINT] = 1;
: 370      0430      4                      END;
: 371      0431      3                  [PASS$K_DISPOSITION_PRINT_DELETE]:
: 372      0432      3                      BEGIN
: 373      0433      4                          FCB [FCB$V_SUBMIT] = 0;
: 374      0434      4                          FCB [FCB$V_SAVE] = 0;
: 375      0435      4                          FCB [FCB$V_PRINT] = 1;
: 376      0436      4                          FCB [FCB$V_DELETE] = 1;
: 377      0437      4                      END;
: 378      0438      3                  [PASS$K_DISPOSITION_SUBMIT]:
: 379      0439      3                      BEGIN
: 380      0440      4                          FCB [FCB$V_PRINT] = 0;
: 381      0441      4                          FCB [FCB$V_DELETE] = 0;
: 382      0442      4                          FCB [FCB$V_SUBMIT] = 1;
: 383      0443      4                          FCB [FCB$V_SAVE] = 1;
: 384      0444      4                      END;
: 385      0445      3                  [PASS$K_DISPOSITION_SUBMIT_DELETE]:
: 386      0446      3                      BEGIN
: 387      0447      4                          FCB [FCB$V_PRINT] = 0;
: 388      0448      4                          FCB [FCB$V_SAVE] = 0;
: 389      0449      4                          FCB [FCB$V_SUBMIT] = 1;
: 390      0450      4                          FCB [FCB$V_DELETE] = 1;
: 391      0451      4                      END;
: 392      0452      3                  [PASS$K_USER_ACTION]:
: 393      0453      3                      BEGIN
: 394      0454      4                          USER_ACTION_BPV = .KEYWORDS [(I=.I+1)];
: 395      0455      4                      END;
: 396      0456      3
: 397      0457      3
: 398      0458      3
: 399      0459      3
: 400      0460      4
: 401      0461      4
: 402      0462      3
```



```

: 403      0463      3
: 404      0464      3
: 405      0465      4
: 406      0466      4
: 407      0467      4
: 408      0468      4
: 409      0469      4
: 410      0470      4
: 411      0471      3
: 412      0472      3
: 413      0473      3
: 414      0474      3
: 415      0475      3
: 416      0476      3
: 417      0477      3
: 418      0478      2
: 419      0479      2
: 420      0480      2
: 421      0481      2
: 422      0482      2
: 423      0483      2
: 424      0484      2
: 425      0485      3
: 426      0486      2
: 427      0487      2
: 428      0488      2
: 429      0489      2
: 430      0490      2
: 431      0491      2
: 432      0492      2
: 433      0493      2
: 434      0494      2
: 435      0495      2
: 436      0496      2
: 437      0497      2
: 438      0498      2
: 439      0499      2
: 440      0500      2
: 441      0501      2
: 442      0502      2
: 443      0503      2
: 444      0504      2
: 445      0505      2
: 446      0506      2
: 447      0507      2
: 448      0508      2
: 449      0509      2
: 450      0510      2
: 451      0511      3
: 452      0512      2
: 453      0513      2
: 454      0514      2
: 455      0515      2
: 456      0516      2
: 457      0517      2
: 458      0518      2
: 459      0519      2

      [PASS$K_ERROR]:
      BEGIN
      !+
      ! The ERROR parameter, if specified, was already processed
      ! in PASS$CLOSE, so just ignore it here.
      !-
      I = .I + 1; ! Ignore next parameter
      END;

      [INRANGE,OUTRANGE]:
      $PASS$IO_ERROR (PASS$_INVARGPAS,0);

      TES;

      END;

      !+
      ! Check for incompatible DISPOSITION.
      !-

      IF .FAB [FAB$V_TMD] AND
      (.FCB [FCB$V_SAVE] OR .FCB [FCB$V_SUBMIT] OR .FCB [FCB$V_PRINT])
      THEN
      $PASS$IO_ERROR (PASS$_FILNAMREQ,0);      ! File name required

      !+
      ! Fill in fields in RMS control blocks
      !-

      IF .FCB [FCB$V_DELETE] AND NOT .FAB [FAB$V_TMD]
      THEN
      FAB [FAB$V_DLT] = 1;

      IF .FCB [FCB$V_SUBMIT]
      THEN
      FAB [FAB$V_SCF] = 1;

      IF .FCB [FCB$V_PRINT]
      THEN
      FAB [FAB$V_SPL] = 1;

      !+
      ! If a textfile, and if in Generation mode, and if the buffer
      ! is not empty, do a WRITELN.
      !-

      IF .FCB [FCB$V_TEXT] AND .FCB [FCB$V_GENERATION] AND
      (.FCB [FCB$A_RECORD_CUR] GTRA .FCB [FCB$A_RECORD_BEG])
      THEN
      PASS$$WRITELN (PFV [PFV$R_PFV], FCB [FCB$R_FCB]);

      !+
      ! Make sure the XAB chain doesn't point to garbage.
      !-

      FAB [FAB$L_XAB] = 0;
```


PASSCLOSE2
1-006

close a file
PASS\$CLOSE - Close a file

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```

: 460      0520      2
: 461      0521      2
: 462      0522      2
: 463      0523      2
: 464      0524      2
: 465      0525      2
: 466      0526      2
: 467      0527      3
: 468      0528      3
: 469      0529      3
: 470      0530      4
: 471      0531      4
: 472      0532      4
: 473      0533      4
: 474      0534      4
: 475      0535      4
: 476      0536      4
: 477      0537      4
: 478      0538      4
: 479      0539      4
: 480      0540      3
: 481      0541      3
: 482      0542      3
: 483      0543      3
: 484      0544      3
: 485      0545      3
: 486      0546      3
: 487      0547      3
: 488      0548      3
: 489      0549      3
: 490      0550      3
: 491      0551      3
: 492      0552      3
: 493      0553      3
: 494      0554      3
: 495      0555      3
: 496      0556      3
: 497      0557      3
: 498      0558      2
: 499      0559      2
: 500      0560      2
: 501      0561      2
: 502      0562      2
: 503      0563      2
: 504      0564      2
: 505      0565      2
: 506      0566      2
: 507      0567      2
: 508      0568      2
: 509      0569      2
: 510      0570      2
: 511      0571      2
: 512      0572      2
: 513      0573      2
: 514      0574      2
: 515      0575      2
: 516      0576      2

!+
!- Close the file.
!-

IF .FAB [FAB$W_IFI] NEQ 0
THEN
    BEGIN
        IF .KEYWORDS_SEEN [PASS$K_USER_ACTION]
        THEN
            BEGIN
                LINKAGE
                USER_ACTION_LNK = CALL (REGISTER=1, STANDARD, STANDARD);

                STATUS = USER_ACTION_LNK (.USER_ACTION_BPV [0],      ! Address
                                           .USER_ACTION_BPV [1],      ! Environment
                                           FAB [0,0,0,0],              ! FAB address
                                           RAB [0,0,0,0],              ! RAB address
                                           PFV [PFV$R_PFV]);            ! PFV address
            END
        ELSE
            STATUS = $PASS$RMS_OP ($CLOSE (FAB=FAB [0,0,0,0]));

        !+
        !- Set the IFI to zero so we don't try another $CLOSE if the last one
        !- failed.

        FAB [FAB$W_IFI] = 0;

        !+
        !- If the close failed, signal an error.
        !-

        IF NOT .STATUS
        THEN
            $PASS$IO_ERROR (PASS$_ERRDURCLO);

        END;

        !+
        !- Deallocate the record buffer, if necessary.
        !-

        IF TESTBITSC (FCB [FCB$V_DYNAMIC_UBF])
        THEN
            PASS$FREE_VM (.RAB [RAB$W_USZ], RAB [RAB$L_UBF]);

        !+
        !- Deallocate key types vector, if necessary.
        !-

        IF .FCB [FCB$A_KEY_TYPES] NEQ 0
        THEN
            PASS$FREE_VM (.FCB [FCB$L_NKEYS]*4, FCB [FCB$A_KEY_TYPES]);

        !+
        !- Deallocate resultant name string, if dynamic. This should be the
```

PASSCLOSE2
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Close a file
PASS\$CLOSE - Close a file

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```

: 517      0577 2      ! last thing to do.
: 518      0578 2      !-
: 519      0579 2
: 520      0580 2      IF TESTBITSC (FCB [FCB$V_DYNAMIC_RSN])
: 521      0581 2      THEN
: 522      0582 2          BEGIN
: 523      0583 2              LOCAL
: 524      0584 2                  NAM: REF BLOCK [, BYTE];
: 525      0585 2                  NAM = .FAB [FAB$L_NAM];
: 526      0586 2                  PASS$FREE_VM (.NAM [NAM$B_RSL], NAM [NAM$L_RSA]);
: 527      0587 2                  END;
: 528      0588 2
: 529      0589 2      !+
: 530      0590 2      ! Mark PFV to indicate file closed.
: 531      0591 2      !-
: 532      0592 2
: 533      0593 2      PFV [PFV$V_OPEN] = 0;
: 534      0594 2      PFV [PFV$V_VALID] = 0;      ! Invalidate flags
: 535      0595 2      PFV [PFV$V_DFB] = 0;      ! Invalidate file buffer
: 536      0596 2      PFV [PFV$V_EOF_DEFINED] = 0;
: 537      0597 2
: 538      0598 2      RETURN;
: 539      0599 2
: 540      0600 1      END;

```

! End of routine PASS\$CLOSE

```

.EXTRN PASS$INVARGPAS
.EXTRN PASS$AB_KEYWD_NAME_TABLE
.EXTRN PASS$FILNAMREQ
.EXTRN PASS$WRITELN, SYSSCLOSE
.EXTRN PASS$ERRDURCLO
.EXTRN PASS$FREE_VM

```

				OFFC 00000				
		5B	00000000G	00	9E	00002		
		5A	00000000G	00	9E	00009		
		5E		08	C2	00010		
		56	04	AC	D0	00013		
		57	0C	A6	D0	00017		
				7E	D4	0001B		
	04	AE	01FF	8F	AA	0001D		
		54		6C	9A	00023		
		54		02	C2	00026		
		52		01	CE	00029		
			00C8	31	0002C	1\$:		
		53	08	AC42	D0	0002F	2\$:	
				65	15	00034		
		28		53	D1	00036		
				60	14	00039		
		50	00000000G	0043	9A	0003B		
	E5	6E		50	E2	00043		
	27	01		53	CF	00047		
0050	0050	0050	0050	0050	0004B	3\$:		
0050	0050	0050	0050	0050	00053			
0050	0050	0050	0050	0050	0005B			

				ENTRY	PASS\$CLOSE, Save R2,R3,R4,R5,R6,R7,R8,R9,-	:	
					R10,R11		0293
				MOVAB	PASS\$SIGNAL, R11		
				MOVAB	PASS\$FREE_VM, R10		
				SUBL2	#8, SP		
				MOVL	IN PFV, PFV		0370
				MOVL	12(PFV), FCB		0376
				CLRL	KEYWORDS_SEEN		0382
				BICW2	#511, KEYWORDS_SEEN+4		0383
				MOVZBL	(AP), R4		0390
				SUBL2	#2, R4		
				MNEGL	#1, I		
				BRW	15\$		
				MOVL	KEYWORDS[I], KEYWD_VALUE		0401
				BLEQ	4\$		0402
				CMPL	KEYWD_VALUE, #40		
				BGTR	4\$		
				MOVZBL	PASS\$AB_KEYWD_NAME_TABLE[KEYWD_VALUE], R0		0406
				BBSS	R0, KEYWORDS_SEEN, -1\$		
				CASEL	KEYWD_VALUE, -#1, #39		0408
				.WORD	4\$-3\$,-		
					4\$-3\$,-		
					4\$-3\$,-		

0050
0060
0091
0050
0050
0050
0050

0050
0058
0082
0050
0050
0050
0050

G050
0050
0075
00A1
0050
0050
0050

0050
0050
0068
00AA
0050
0050
0050

00063
0006B
00073
0007B
00083
0008B
00093

[illegible]

FC	7E	00G	7E	D4	0009B	4\$:	CLRL	-(SP)
			8F	9A	0009D		MOVZBL	#PASSK_INVARGPAS, -(SP)
			73	11	000A1		BRB	17\$
FC	A7	01C0	8F	AA	000A3	5\$:	BICW2	#448, -4(FCB)
			2B	11	000A9		BRB	10\$
FC	A7	01A0	8F	AA	000AB	6\$:	BICW2	#416, -4(FCB)
			32	11	000B1		BRB	12\$
FC	A7	0140	8F	AA	000B3	7\$:	BICW2	#320, -4(FCB)
FC	A7	A0	8F	88	000B9		BISB2	#160, -4(FCB)
			37	11	000BE		BRB	15\$
FC	A7	0120	8F	AA	000C0	8\$:	BICW2	#288, -4(FCB)
FC	A7	80	8F	88	000C6		BISB2	#128, -4(FCB)
			18	11	000CB		BRB	12\$
FC	A7	C0	8F	8A	000CD	9\$:	BICB2	#192, -4(FCB)
FD	A7		01	88	000D2		BISB2	#1, -3(FCB)
FC	A7		20	88	000D6	10\$:	BISB2	#32, -4(FCB)
			1B	11	000DA		BRB	15\$
FC	A7	A0	8F	8A	000DC	11\$:	BICB2	#160, -4(FCB)
FD	A7		01	88	000E1		BISB2	#1, -3(FCB)
FC	A7	40	8F	88	000E5	12\$:	BISB2	#64, -4(FCB)

0474
0415
0416
0423
0424
0430
0432
0408
0437
0439
0440
0446
0447
0448
0408
0454
0455
0456

PASSCLOSE2
1-006

Close a file
PASS\$CLOSE - Close a file

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FF32	52	01	08	0B	11	000EA	BRB	15\$	0408
	18	A7	08	52	D6	000EC	INCL	I	0461
	09	A7		02	D0	000EE	MOVL	KEYWORDS[I], USER_ACTION_BPV	
		05		02	11	000F3	BRB	15\$	0408
				52	D6	000F5	INCL	I	0470
				54	F1	000F7	ACBL	R4, #1, I, 2\$	0390
				04	E1	000FD	BBC	#4, 72(FAB), 18\$	0484
				05	E0	00102	BBS	#5, -4(FAB), 16\$	0485
			FD	A7	E8	00107	BLBS	-3(FAB), 16\$	
			FC	A7	95	0010B	TSTB	-4(FAB)	
				0A	18	0010E	BGEQ	18\$	
				7E	D4	00110	CLRL	-(SP)	0487
		7E	00G	8F	9A	00112	MOVZBL	#PASS\$K FILNAMREQ, -(SP)	
		6B		02	FB	00116	CALLS	#2, PASS\$SIGNAL	
					04	00119	RET		
		58	FC	A7	9E	0011A	MOVAB	-4(FAB), R8	0493
0A		68		06	E1	0011E	BBC	#6, (R8), 19\$	
05		A7		04	E0	00122	BBS	#4, 72(FAB), 19\$	
	48	A7	80	8F	88	00127	BISB2	#128, 73(FAB)	0495
	49	A7	01	A8	E9	0012C	BLBC	1(R8), 20\$	0497
		05	40	8F	88	00130	BISB2	#64, 73(FAB)	0499
		A7		68	95	00135	TSTB	(R8)	0501
				04	18	00137	BGEQ	21\$	
				20	88	00139	BISB2	#32, 73(FAB)	0503
	49	A7	F8	A7	E9	0013D	BLBC	-8(FAB), 22\$	0510
0D		11		0C	E1	00141	BBC	#12, (R8), 22\$	
		68	EC	A7	D1	00145	CMPL	-20(FAB), -24(FAB)	0511
	E8	A7		06	1B	0014A	BLEQU	22\$	
			00000000G	00	16	0014C	JSB	PASS\$WRITELN	0513
				68	A7	00152	CLRL	104(FAB)	0519
				46	A7	00155	TSTW	70(FAB)	0525
				43	13	00158	BEQL	25\$	
		52	44	A7	9E	0015A	MOVAB	68(R7), R2	0536
10		AE		02	E1	0015E	BBC	#2, KEYWORDS_SEEN+3, 23\$	0528
				56	DD	00163	PUSHL	PFV	0538
			0084	8F	BB	00165	PUSHR	#^M<R2,R7>	
		51	04	A9	D0	00169	MOVL	4(USER_ACTION_BPV), R1	
	00	B9		03	FB	0016D	CALLS	#3, 20(USER_ACTION_BPV)	
				19	11	00171	BRB	24\$	
				52	DD	00173	PUSHL	R2	0541
	00000000G	00		01	FB	00175	CALLS	#1, SYSS\$CLOSE	
		0D		50	E8	0017C	BLBS	\$\$STATUS, 24\$	
	0001825A	8F		50	D1	0017F	CMPL	\$\$STATUS, #98906	
				04	12	00186	BNEQ	24\$	
		E7	03	A8	E8	00188	BLBS	3(R8), 23\$	
		51		50	D0	0018C	MOVL	\$\$STATUS, STATUS	
			46	A7	B4	0018F	CLRW	70(FAB)	0548
		08		51	E8	00192	BLBS	STATUS, 25\$	0554
		7E	00G	8F	9A	00195	MOVZBL	#PASS\$K ERRDURCLO, -(SP)	0556
		6B		01	FB	00199	CALLS	#1, PASS\$SIGNAL	
				04	04	0019C	RET		
0A		68		13	E5	0019D	BBCC	#19, (R8), 26\$	0564
			24	A7	9F	001A1	PUSHAB	36(FAB)	0566
		7E	20	A7	3C	001A4	MOVZWL	32(FAB), -(SP)	
		6A		02	FB	001A8	CALLS	#2, PASS\$FREE_VM	
			CC	A7	D5	001AB	TSTL	-52(FAB)	0571
				0B	13	001AE	BEQL	27\$	


```

; 541      0601  1
; 542      0602  1 !<BLF/PAGE>

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PASSCLOSE2
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Close a file
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: 544 0603 1 END
: 545 0604 1
: 546 0605 0 ELUDOM

! End of module PASSCLOSE2

PSECT SUMMARY

Name	Bytes	Attributes
_PASSCODE	611	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	16	0	581	00:01.0
-\$255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1	427	111	25	33	00:00.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:PASCLOSE2/OBJ=OBJ\$:PASCLOSE2 MSRC\$:PASCLOSE2/UPDATE=(ENH\$:PASCLOSE2)

: Size: 611 code + 0 data bytes
: Run Time: 00:14.1
: Elapsed Time: 00:51.1
: Lines/CPU Min: 2578
: Lexemes/CPU-Min: 19367
: Memory Used: 193 pages
: Compilation Complete

0293 AH-BT13A-SE
VAX/VMS V4.0

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